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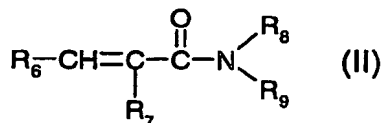
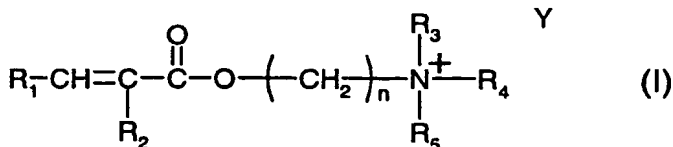
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(54) Title: COPOLYMERS AND THEIR USE IN PERSONAL CARE COMPOSITIONS



(57) Abstract: The present invention relates to a copolymer derived from the polymerization of a) at least one cationic monomer of formula (I), wherein R₁ is hydrogen or methyl, R₂ is hydrogen or C₁-C₄alkyl, R₃, R₄ and R₅ are independently from each other hydrogen or C₁-C₄alkyl, n is an integer from 1 - 5, and Y is a counterion, and b) at least one monomer of formula (II) wherein R₆ signifies hydrogen or methyl, and R₇, R₈ and R₉ signify independently from each other hydrogen or C₁-C₄alkyl, with the proviso that at least one of the substituents R₆, R₇, R₈ and R₉ is C₁-4alkyl and c) optionally at least one cross-linking agent, which contains at least two ethylenically unsaturated moieties, as well as to their use in personal care product and to the personal care products.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/07637

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C08F220/34 C08F220/54 A61K7/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C08F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00 39176 A (THE B.F. GOODRICH CO.) 6 July 2000 (2000-07-06) claims 1,11,15,47	1-12
X	EP 0 372 546 A (KAO CORP.) 13 June 1990 (1990-06-13) claims 1,3	1-12
X	EP 0 045 720 A (CIBA-GEIGY AG) 10 February 1982 (1982-02-10) claims 1,12	1-12
X	DE 100 61 656 A (NUTRICON UMWELTSCHUTZTECHNIK GMBH) 20 June 2002 (2002-06-20) claim 1	1-9

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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